Aloha,
Hawai‘i Invasive Species Council meeting will begin shortly

Some reminders:

- This meeting is to approve the recommended FY22 HISC budget
- Council members, legislative representatives, and HISC Staff will be participating through Zoom. A link was sent to those individuals prior to the meeting.
- Members of the public that requested oral testimony should have received the Zoom link but will remain muted until the public comments section
- *The meeting is livestreaming on the HISC YouTube channel*

Agenda
August 30, 2021; 1 pm

This is a public meeting and being livestreamed to YouTube

1. Call to order
2. Introductions
3. Approval of minutes from June 9, 2021 meeting
4. Submittal: Requesting approval of a recommended budget for Fiscal Year 2022
5. Public Comments
6. Adjournment

Submittal

Requesting approval of a recommended budget for Fiscal Year 2022

Overview of Budget Process

A little bit like climbing a mountain

1. Call for proposals
2. Members of the Resources Working Group evaluate applications
3. Final application scores are entered into RWG spreadsheet
4. Applications are ranked highest to lowest scoring
5. Formula in spreadsheet generates a recommended award amount based on **score**, **requested amount**, and **total available funding** to create a balanced budget
6. RWG meeting to produce final recommendation based on discussion
    a. Structured primarily as a discussion among members
    b. The public, including applicants, can attend and weigh in
7. Council reviews budget for approval (8/30, 1pm)

Members of the Resources Working Group

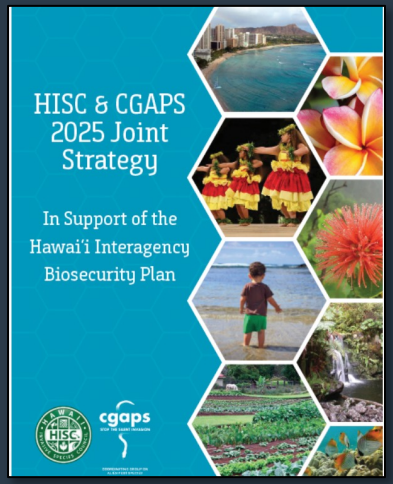
- Rob Hauff, Chair (DLNR-DOFAW)
- Justine Nihipali (DBEDT)
- Grace Simmons (DOH)
- Tomo Murata (DOT)
- Darcy Oishi (DOA)
- Janis Matsunaga (DOA)
- Mike Melzer (UH)
- Christy Martin (UH-PCSU-CGAPS)
- Kim Fuller (DLNR-DAR)
- Natalie Dunn (DLNR-DAR)
- Leyla Kaufman (HISC)
- Chelsea Arnott (HISC)

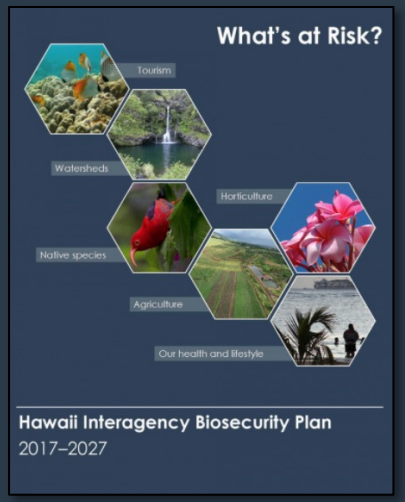
Overview of Scoring Process
80 points possible

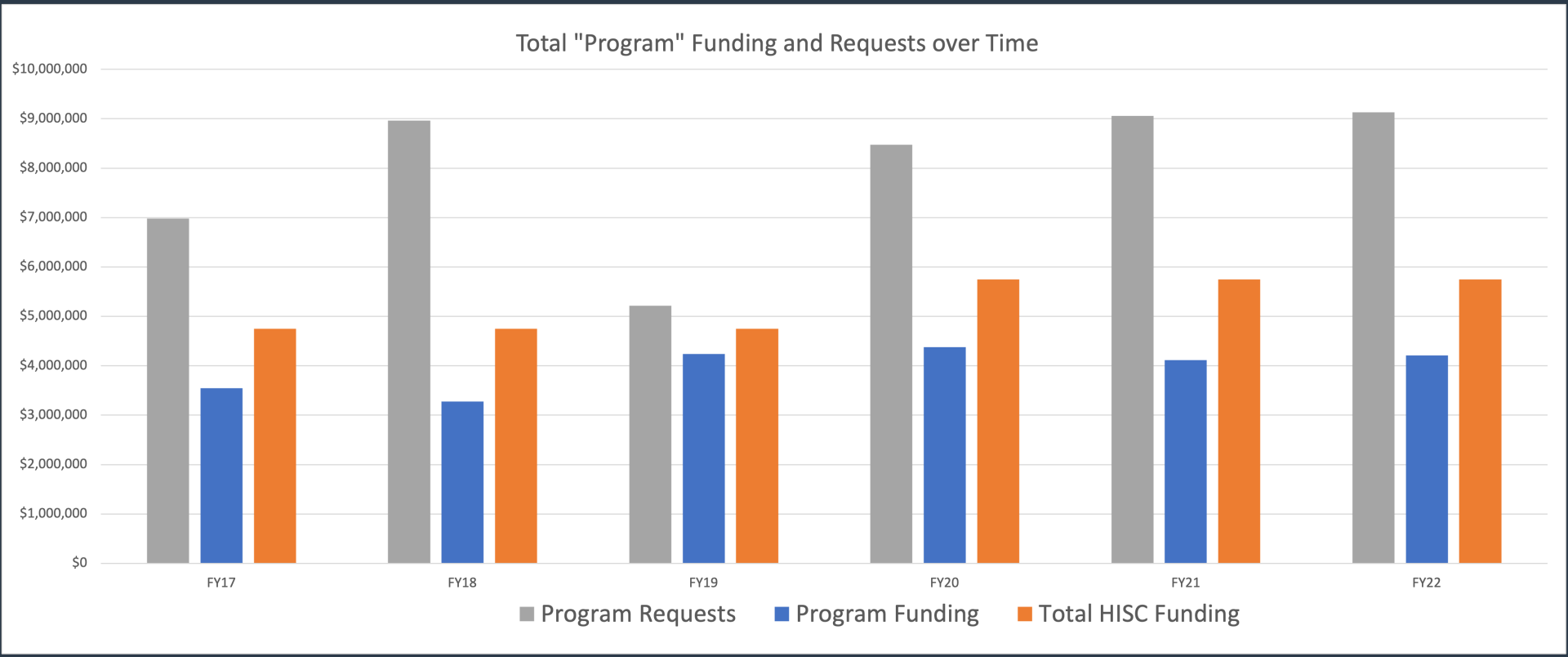
1. Members of RWG scored applications based on relevance to priorities outlined in the HISC/CGAPS 2025 Joint Strategy (**50 points possible**)
2. Cross-sectoral score – Ag, Nat Res, Transportation, Human Health, Economy, Research (**6 points possible**)
3. Leveraged funding score (**10 points possible**)
4. Multi-year project funded by HISC (**10 points possible**)
5. Part of a larger management or strategic plan (**4 points possible**, not counted for research projects)

Funding Priorities
5 priorities, 10 points each

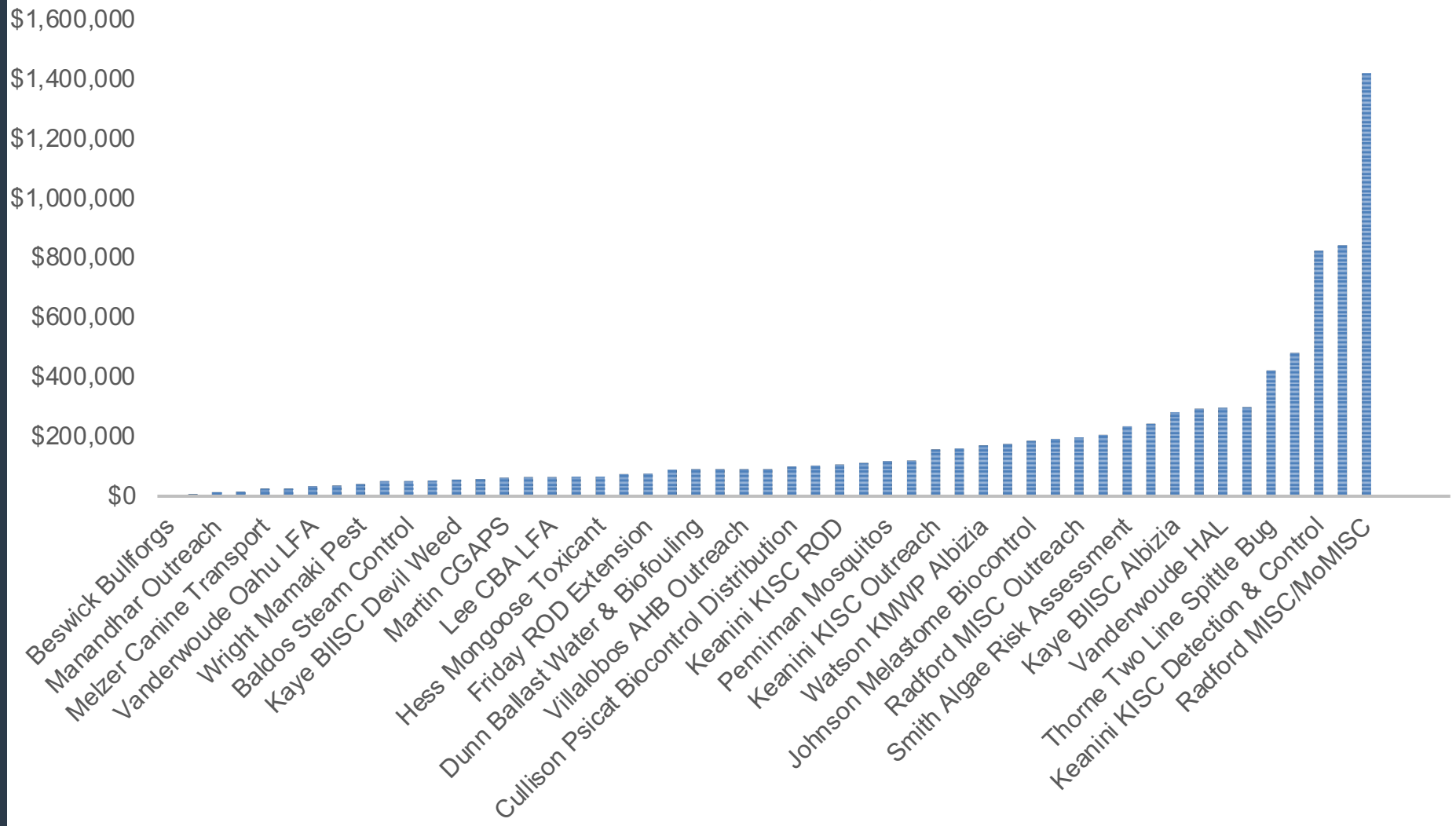
1. **Prevention & Early Detection/Rapid Response for new Invasions** – to keep Aquatic and/or Terrestrial invasive threats from arriving and establishing in the state.
2. **Inter/Intra-Island Movement of Invasive Species** – to reduce the spread of Aquatic and/or Terrestrial invasive species between and across islands.
3. **Large-Scale Control of High-Impact Invasive Species** – to expand management of widespread, high-impact species both in terrestrial and aquatic environments (This priority focuses on species that are already well-established in the area where control will occur).
4. **Pacific Regional Biocontrol (Capacity)** – projects that seek to increase biocontrol work and critical infrastructure in Hawai‘i.
5. **Engaged & Supportive Community** – to maintain strong community support and mobilize action on these 2025 Joint Strategies.






Total "Program" Funding and Requests over Time
$10,000,000
$9,000,000
$8,000,000
$7,000,000
$6,000,000
$5,000,000
$4,000,000
$3,000,000
$2,000,000
$1,000,000
$0
FY17
FY18
FY19
FY20
FY21
FY22
Program Requests
Program Funding
Total HISC Funding

FY22 AMOUNT REQUESTED



Funding Available for FY22 HISC Funds

Total Requests	**$9,127,749**
Appropriation	$5,750,000
After Restriction & DOFAW Overhead	$4,711,855
HISC Support, IS Coordinator, HBIN, WRA	$579,756
Remaining	**$4,132,099**

Compared to last year (FY21)

Total Requests	**$9,216,501**
Appropriation	$5,750,000
After Restriction & DOFAW Overhead	$4,558,152
HISC Support, HBIN, WRA	$439,943
Remaining	**$4,118,209**

Two budgets are included in this year's submittal

One, recommended award amounts determined by RWG

Second, recommended award amounts determined by HISC Staff

WHY?

- Significant gap in funding to one of our critical programs compared to the previous year

HOW to address this?

- Funding pulled from HISC Support Budget and 2.5% reduction was applied to all funded projects

Problematic gap -

Program	Program Req	RWG Rec	% Filled	FY21 Funding	Diff (FY21-20)
Biocontrol	716,717	$150,737	21%	$275,800	-$125,063
Mosquitoes	368,412	$160,195	43%	$30,500	$129,695
Hawaii Ant Lab	330,824	$296,581	90%	$208,000	$88,581
BIISC	1,316,091	$604,715	46%	$879,666	-$274,951
MISC	1,615,937	$859,606	53%	$828,258	$31,348
OISC	1,259,141	$691,105	55%	$748,339	-$57,234
KISC	1,086,505	$629,303	58%	$615,528	$13,775
ISCs Total	6,693,627	$2,784,730	42%	$3,071,791	-$287,061

Closing the gap & balancing the budget

	RWG Totals	Adjusted Totals
Total Requests	**$9,127,749**	
Appropriation	$5,750,000	
After Restriction & DOFAW Overhead	$4,711,855	
HISC Support, IS Coordinator, HBIN, WRA	$579,756 →	$499,756 ↓
Remaining	**$4,132,099**	**$4,212,099**

Closing the gap & balancing the budget

Overall Ranking	Abbreviated Proposal Title	Total Requested	RWG Recommendation	HISC Support Staff Recommendation
1	Coordinating Group on Alien Pest Species	$62,000	$38,000.00	→ $37,050.00
2	Hawaii Ant Lab core funds	$296,581	$296,581.00	→ $289,166.48
3	Albizia Community Control Teams and Regional Eradication Efforts in the Ko'olau	$170,899	$68,000.00	→ $66,300.00
4	Maui/Molokai Invasive Species Committees - Detection and Control of Invasive Species in Maui County	$1,418,516	$770,423.00	→ $751,162.43
5	Maui Invasive Species Committee (MISC) - Outreach and Education in Maui County	$197,421	$89,183.00	→ $86,953.43
6	Public Engagement in Invasive Species Control on the Island of Hawaii	$293,262	$196,472.00	$196,472.00

2.5% applied to all funded proposals, except biocontrol & BIISC. Totals $86,041 in additional funds.

Closing the gap & balancing the budget

Program	Program Req	RWG Rec	HISC Staff Rec	2.5% difference	FY21 Funding	Diff (FY21-20)
Biocontrol	716,717	$150,737	$ 150,737.00	$0	$275,800	-$125,063
Mosquitoes	368,412	$190,695	$ 185,927.63	-$4,767	$30,500	$155,428
Hawaii Ant Lab	330,824	$296,581	$ 289,166.48	$7,415	$208,000	$81,166
BIISC	1,316,091	$619,716	$ 705,757.15	$86,041	$879,666	-$173,909
MISC	1,615,937	$859,606	$ 838,115.85	-$21,490	$828,258	$9,858
OISC	1,259,141	$691,106	$ 673,828.35	-$17,278	$748,339	-$74,511
KISC	1,086,505	$629,303	$ 613,570.43	-$15,733	$615,528	-$1,958
ISCs Total	6,693,627	$2,799,731	$ 2,831,271.78	$31,541	$3,071,791	-$240,519

Any questions or comments before we present the recommended budget?

Not Recommending Funding

Overall Ranking	Org	Proposal Title	Total Request	RWG & HISC Staff Rec
16	HAL	Little Fire Ants early detection and response on Oahu	$34,243	$0.00
33	Utah State	Is citric acid still an effective way to control coqui frogs?	$35,495.17	$0.00
34	UH	Estimating the impacts of Hull Biofouling and in-water cleaning: an economic approach	$64,845	$0.00
35	UH	Detector canine transport	$25,000	$0.00
37	DLNR	Distribution of Strawberry Guava Biocontrol: Creating Reservoirs of Tectococcus (Tectococcus ovatus)	$100,000	$0.00
40	UH	Developing a Landscape-scale Aerial Deployment Method for Biocontrol of Strawberry Guava	$52,437	$0.00
42	DLNR	Development of mongoose control technology: refining the Goodnature A18 mongoose trap	$50,000	$0.00
43	UH	Increasing adoption of surveillance and monitoring for Varroa destructor mites in honeybees on varroa-negative and -positive islands	$25,186.34	$0.00
44	UH	A comprehensive survey for potential local biocontrol agents of coffee leaf rust	$56,914	$0.00
45	UH	Evaluating the use of steam as a non-chemical means to control common and invasive weeds in urban areas of Hawaii	$50,000.00	$0.00
46	USFS	Spread and impact of Orasema minutissima, a potential adventive biological control agent of LFA	$74,800	$0.00
48	UH	Develop and disseminate an invasive pest outreach program to the Hawaii community	$13,750	$0.00
50	HPU	Invasive Ecology of American Bullfrogs in Hawaii	$4,963	$0.00
51	Bishop	Determining if Toxoplasma gondii can be detected in invasive terrestrial snails in O‘ahu, Hawai‘i	$7,298.50	$0.00

Programmatic Awards

Overall Ranking	Org	Proposal Title	Total Request	RWG Recommendation	HISC Support Staff Recommendation
1	CGAPS	Coordinating Group on Alien Pest Species	$62,000	$38,000	$37,050
2	HAL	Hawaii Ant Lab core funds	$296,581	$296,581	$289,166
4	MoMISC MISC	Maui/Molokai Invasive Species Committees - Detection and Control of Invasive Species in Maui County	$1,418,516	$770,423	$751,162
5	MISC	Maui Invasive Species Committee (MISC) - Outreach and Education in Maui County	$197,421	$89,183	$86,953
6	BIISC	Public Engagement in Invasive Species Control on the Island of Hawaii	$293,262	$196,472	$196,472
7	OISC	OISC's Early Detection & Rapid Response on O‘ahu	$242,361	$137,578	$134,139
8	OISC	OISC's Landscape Level Control of High-Impact Invasive Species on O‘ahu	$841,797	$459,820	$448,325
9	KISC	Kauai Invasive Species Committee Early Detection, Rapid Response, and Control	$823,843	$506,189	$493,534
10	OISC	OISC's Invasive Species Outreach & Education on Oahu	$174,983	$93,708	$91,365
11	BIISC	Detection and Control of Invasive Species on Hawai`i Island	$479,903	$256,580	$256,580
13	KISC	Public Outreach and Education on Kaua'i	$156,359	$78,710	$76,742
14	HISC	Mamalu Poepoe: Invasive Species Surveillance at ports of entry	$299,000	$147,312	$143,629
		Total		$3,150,556	$3,083,118

Biocontrol Research and Weed Management

Overall Ranking	Org	Proposal Title	Total Request	RWG Recommendation	HISC Support Staff Recommendation
3	KMWP	Albizia Community Control Teams and Regional Eradication Efforts in the Ko'olau	$170,899	$68,000	$66,300
17	KMWP	Tibouchina Control and T. Ovatus Disbursal in the Ko'olau	$91,676	$40,000	$39,000
24	USFS	Natural enemies for albizia	$191,800	$65,737	$65,737
25	USFS	Biocontrol of melastomes and other high priority weeds	$185,680	$60,000	$60,000
26	BIISC	Hawaii Island Albizia Hazard Mitigation Plan Project Thirteen: Kahakai Boulevard	$281,448	$84,405	$84,405
29	USFS	Biocontrol of invasive Rubus	$112,000	$25,000	$25,000
31	BIISC	Eradication Of Devil Weed to Protect Agriculture On Hawai`i Island	$55,862	$25,000	$25,000
		Total		$368,142	$365,442

Aquatics

Overall Ranking	Org	Proposal Title	Total Request	RWG Recommendation	HISC Support Staff Recommendation
12	DAR	Hawaii Ballast Water and Biofouling	$90,560	$80,000	$78,000
32	UH	Investigating management and competitive interactions between distinct yet related invasive algal species Avrainvillea erecta and Avrainvillea lacerata at different depth levels.	$65,379	$18,206	$17,751
47	UH	Generating needed data to build a risk assessement framework for invasive algae in Hawai‘i.	$234,598	$27,639	$26,948
		Total		$125,845	$122,699

Rapid ‘Ōhi‘a Death

Overall Ranking	Org	Abbreviated Proposal Title	Total Requested	RWG Recommendation	HISC Support Staff Recommendation
18	UH	ROD Outreach on Hawaii Island	$75,955.97	$30,000	$29,250
21	KISC	Kauai Rapid Ohia Death Response	$106,303	$44,404	$43,294
30	BIISC	Detection and Control of Rapid ‘Ōhi‘a Death on Hawai‘i Island	$205,616	$57,259	$57,259
		Total		$131,663	$129,803

Research

Overall Ranking	Org	Proposal Title	Total Request	RWG Recommendation	HISC Support Staff Recommendation
15	USDA	Field Trials of Mongoose Toxicant Efficacy Under EPA Experimental Use Permit	$65,960	$32,497	$31,685
19	UH	1. Detection and Management Strategies for the Control of Prosapia bicincta (Twolined Spittlebug) in Hawaii	$421,322	$189,528	$184,790
23	UH	Detection & Invasive Potential and population dynamics of Arcte coerula (Lepidoptera, Noctuidae), a New Pest of Māmaki in Hawaii.	$41,135	$14,098	$13,746
28	UH	Beekeeper organization and cooperation: Our "best shot" against Africanized Honeybees	$91,000	$25,000	$24,375
38	UH	An economic analysis of LFA eradication on Maui	$64,845	$29,000	$28,275
41	USDA	Investigating infection levels and population dynamics of wild rats (Rattus spp.) to inform management and surveillance of rat lungworm in Hawai‘i	$89,749	$18,000	$17,550
49	UH	Animal Disease Diagnostic Laboratory Support for Shrimp Pathogens	$119,026	$11,473	$11,186
		Total		$319,596	$311,606

Mosquitos

Overall Ranking	Org	Abbreviated Proposal Title	Total Requested	RWG Recommendation	HISC Support Staff Recommendation
20	UH	Birds, Not Mosquitoes: Landscape-Scale Mosquito Control	$117,618.47	$30,500	$29,738
27	DLNR	Mosquito surveys and larval control on Kauai to further landscape-level mosquito control and protect endangered honeycreepers	$102,182	$30,644	$29,878
36	DLNR	Project Support for DLNR and DOH Implementation of Incompatible Insect Technique using Wolbachia for control of three mosquito species	$90,794	$49,551	$48,312
39	DOH	Environmental Assessment for the Suppression of Aedes aegypti, Aedes albopictus, and Culex quinquefasciatus Mosquitoes in Hawaii using Wolbachia-based Incompatible Insect Technique	$160,000	$80,000	$78,000
		Total		**$190,695**	**$185,928**

Ungulates

Overall Ranking	Org	Abbreviated Proposal Title	Total Requested	RWG Recommendation	HISC Support Staff Recommendation
22	KMWP	East Oahu Feral Goat Control and Surveys	$15,383	$5,602	$5,462

Recommendations

- That the HISC approve the FY22 budget for HISC support and an interagency project portfolio that is recommended by HISC Support Staff with the 2.5% reduction, and
- That, should the Department of Budget and Finance make any changes to the restriction on expenditures, the HISC delegate authority to the HISC Support Staff to identify best way to apply additional restrictions to project funds, or to identify best uses of any released funds, and
- That, if there are any changes in the scope or implementation of projects over the course of the year, the Council delegate authority to the HISC Support staff to make adjustments to project funds or reassign project funds from any project that does not proceed in a timely manner.

Thank you for your time

We do have testimony

Questions or comments from council or legislators?